

REPLACEMENT ABSTRACT

Abstract

The invention concerns a device for the non-contact
5 measurement of the position of the teeth (13) of a workpiece
(14) with precut teeth on a gear finishing machine. The
measuring probe, retractable from the measuring position into
a position of rest protected against soiling, is arranged in
a holder (5) for radial and axial adjustment relative to the
10 workpiece, the said holder (5) being a kinematic member of a
parallelogram linkage (A) and by means of a hydraulic,
pneumatic or electromechanical swivel drive (11) is
swivellable from stop to stop between measuring position and
position of rest in a plane containing the workpiece axis,
15 such that in the advancement action from the lower end
position ~~(15)~~ to the upper top end position ~~(12)~~ motions of
the measuring probe (1) tangential to the workpiece
circumference are completely avoided. The parallelogram
kinematics moreover afford adequate protection against swarf
20 and grinding dust, and lends the device a high stiffness and
reliability.

Fig. 1